

1 WHAT IS CLAIMED IS:

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3 1. A folding knife, said folding knife comprising:
4 a blade;
5 a blade housing having an interior and an exterior;
6 a folding element connecting the blade to the interior of the blade housing;
7 and
8 a sharpening element connected to the interior of the blade housing.

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10 2. The folding knife of Claim 1, wherein the sharpening element comprises:
11 a first sharpening surface element connected to a first interior wall of the
12 interior of the blade housing.

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14 3. The folding knife of Claim 2, wherein the first sharpening surface element is
15 stationarily connected to a first interior wall of the interior of the blade housing.

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17 4. The folding knife of Claim 2, wherein the first sharpening surface element is
18 moveably connected to a first interior wall of the interior of the blade housing.

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20 5. The folding knife of Claim 2, wherein a first portion of the blade is serrated,
21 wherein a first portion of the first sharpening surface element corresponds in
22 position to the serrated portion of the blade, and wherein the first portion of the
23 first sharpening surface element that corresponds in position to the serrated
24 portion of the blade is contoured to sharpen the serrated portion of the blade.

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26 6. The folding knife of Claim 5, wherein a second portion of the blade is non-
27 serrated, wherein a second portion of the first sharpening surface element
28 corresponds in position to the non-serrated portion of the blade, and wherein the
29 second portion of the first sharpening surface element that corresponds in position
30 to the non-serrated portion of the blade is contoured to sharpen the non-serrated
31 portion of the blade.

- 1 7. The folding knife of Claim 2, wherein the sharpening element further
2 comprises:
3 a second sharpening surface element connected to a second interior wall of
4 the interior of the blade housing.
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- 6 8. The folding knife of Claim 7, wherein the second sharpening surface
7 element is stationarily connected to the second interior wall of the interior of the
8 blade housing.
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- 10 9. The folding knife of Claim 7, wherein the second sharpening surface
11 element is moveably connected to the second interior wall of the interior of the
12 blade housing.
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- 14 10. A sharpening element for folding knives, said sharpening element
15 comprising:
16 a first sharpening surface element for connection to a first interior wall of an
17 interior of a folding knife blade housing.
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- 19 11. The sharpening element of Claim 10, said sharpening element further
20 comprising:
21 a second sharpening surface element for connection to a second interior
22 wall of the interior of the folding knife blade housing.
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- 24 12. A folding knife, said folding knife comprising:
25 a blade housing having an interior and an exterior;
26 a folding element connecting a blade to the interior of the blade housing
27 such that the blade can be opened out of the housing or closed into the housing;
28 and
29 a folding blade, said folding blade comprising:
30 a first side having an angled bevel;

1 a sharp edge, said sharp edge formed at an intersection of the
2 angled bevel and a small raised flat bevel; and
3 a second side, wherein the second side is hollow ground and
4 comprises the small raised flat bevel.

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6 13. The folding knife of Claim 12, said folding knife further comprising:
7 a first blade sharpening element connected to the interior of the blade
8 housing.

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10 14. The folding knife of Claim 13, wherein the first sharpening element is
11 stationarily connected to a first interior wall of the interior of the blade housing.

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13 15. The folding knife of Claim 13, wherein the first sharpening element is
14 moveably connected to a first interior wall of the interior of the blade housing.

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16 16. The folding knife of Claim 14, wherein the first sharpening element has a
17 flat sharpening surface and wherein said first sharpening element is connected to
18 the first interior wall so that the flat sharpening surface of the first sharpening
19 element is parallel to the small raised flat bevel of the hollow ground side of the
20 folding blade when the folding blade is closed in the housing.

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22 17. The folding knife of Claim 16, said angled bevel of said folding blade
23 comprising:

24 a serrated angled bevel portion; and

25 a non-serrated angled bevel portion.

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27 18. The folding knife of Claim 16, said folding knife further comprising:
28 a second sharpening element, said second sharpening element connected
29 to a second interior wall of the interior of the blade housing.

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1 19. The folding knife of Claim 18, wherein said second sharpening element is
2 moveably connected to the second interior wall of the interior of the blade housing;

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4 20. The folding knife of Claim 19, said angled bevel of said folding blade
5 comprising:

6 a serrated angled bevel portion; and

7 a non-serrated angled bevel portion.

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9 21. The folding knife of Claim 12 wherein the first side is convex.

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11 22. A folding knife blade, said folding knife blade comprising:

12 a folding element; and

13 a blade edge formed at an intersection of an angled bevel and a raised flat
14 bevel, the raised flat bevel having a height, said raised flat bevel disposed on a
15 hollow ground side of the blade.

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17 23. The folding knife blade of Claim 22, said folding knife blade further
18 comprising:

19 a spacing detent disposed on the hollow ground flat side of the blade at an
20 end of the blade opposing the blade edge, wherein the spacing detent has a
21 height.

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23 24. The folding knife blade of Claim 23, wherein the height of the spacing
24 detent is equal to the height of the raised flat bevel.

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26 25. A folding knife blade, said folding knife blade comprising:

27 a blade edge formed at an intersection of an angled bevel and a raised flat
28 bevel, the raised flat bevel having a height, said raised flat bevel disposed on a
29 hollow ground side of the blade;

1 a spacing detent disposed on the hollow ground flat side of the blade at an
2 end of the blade opposing the blade edge, wherein the spacing detent has a
3 height.

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5 26. The folding knife blade of Claim 25, wherein the height of the spacing
6 detent is equal to the height of the raised flat bevel.

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8 27. A method of making a folding knife blade, said method comprising:
9 hollow grinding a flat side of a folding knife blade, said folding knife blade
10 having an edge formed at an intersection between an angled bevel disposed on
11 one side of the knife blade and the flat side of the knife blade;
12 said hollow grinding preserving a raised flat bevel at the edge-forming
13 intersection between the angled bevel and the flat side of the knife blade, wherein
14 the raised flat bevel has a height.

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16 28. The method of making a folding knife blade of Claim 27, said method
17 further comprising:

18 said hollow grinding further preserving a spacing detent disposed on the
19 hollow ground flat side of the blade at an end of the blade opposing the blade
20 edge, wherein the spacing detent has a height.

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22 29. The method of making a folding knife blade of Claim 28, wherein the height
23 of the preserved spacing detent is equal to the height of the preserved raised flat
24 bevel.

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26 30. The folding knife of Claim 1 wherein the sharpening element is removeably
27 connected to the interior of the blade housing.

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29 31. The folding knife of Claim 30 further comprising a locking means for locking
30 the removable sharpening element to the blade housing.

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1 32. The folding knife blade of Claim 22, said folding knife blade further
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3 a sharpening alignment aperture.
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